

A Sample Information Retrieval Index

Document A : Now is the time.

Document B : For all good men.

Document C: To come to the aid of their country.

	Document A	Document B	Document C
Now	1		
Is	1		
The	1		1
Time	1		
For		1	
All		1	
Good		1	
Men		1	
To			2
Come			1
Aid			1
of			1
their			1
country			1

Figure 1

CLAUSE

NP (SUBJ)

The [article]

Department of Justice [noun (phrasal, gov_entity)]

VP (ACTIVE_VOICE)

sued [verb, past tense]

NP (DOBJ,)

Microsoft [noun, (company)]

PP

for [preposition]

NP

antitrust [adjective]

violations [noun]

PP

in

NP

federal [adjective]

court [noun]

Figure 2a

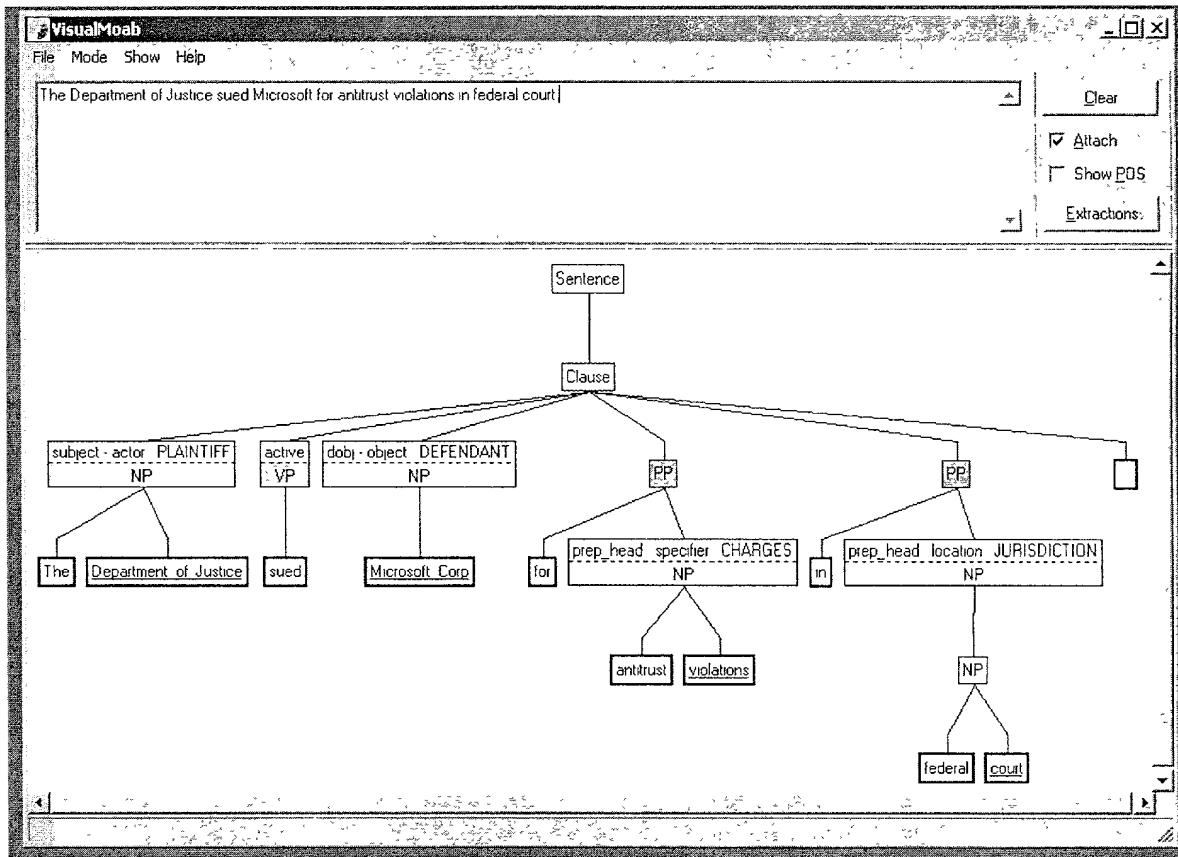


Figure 2b
A Graphical View of A Sentence Parse and Thematic Role Assignment

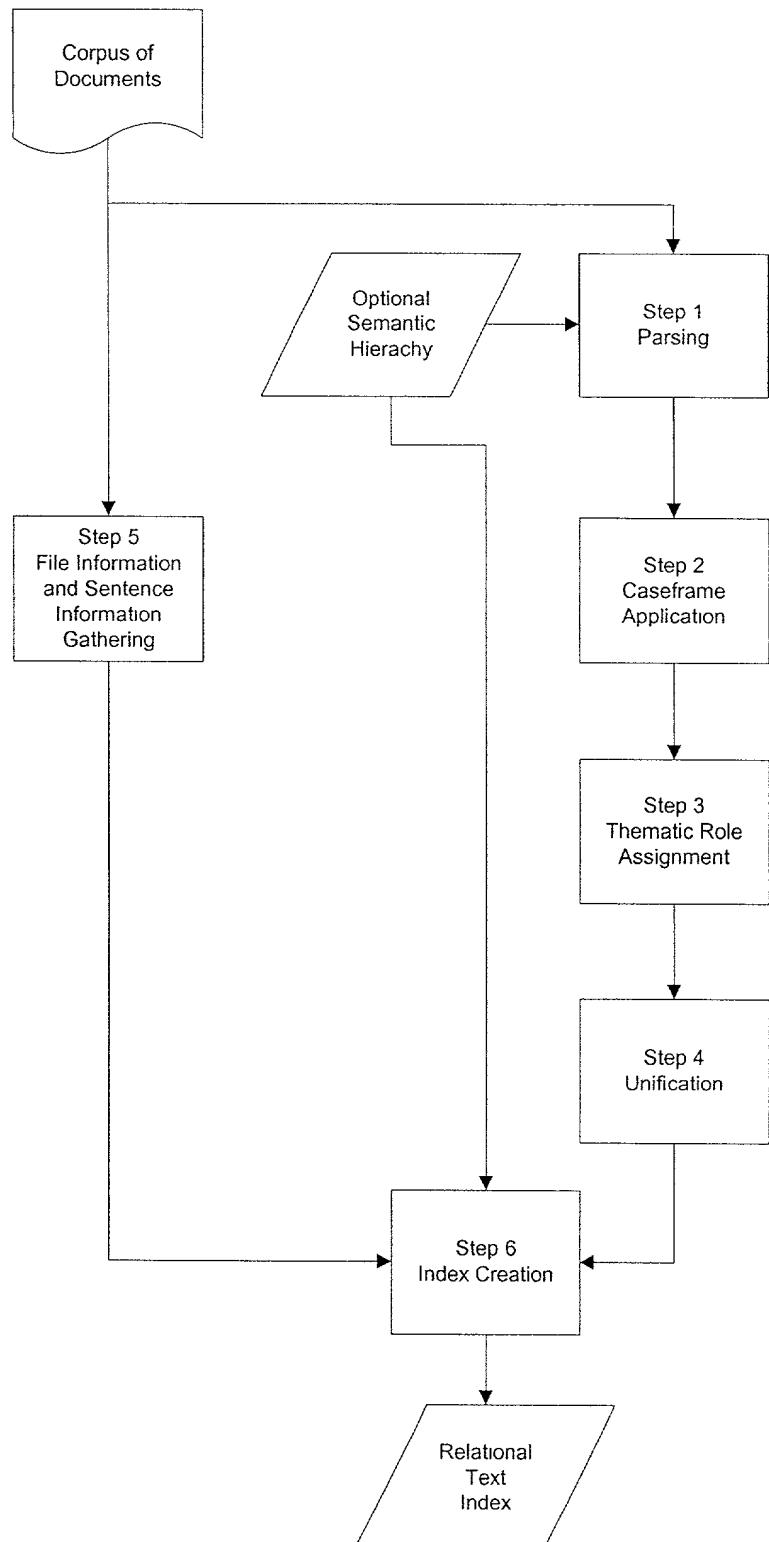


Figure 3
Index Creation Algorithm, High Level

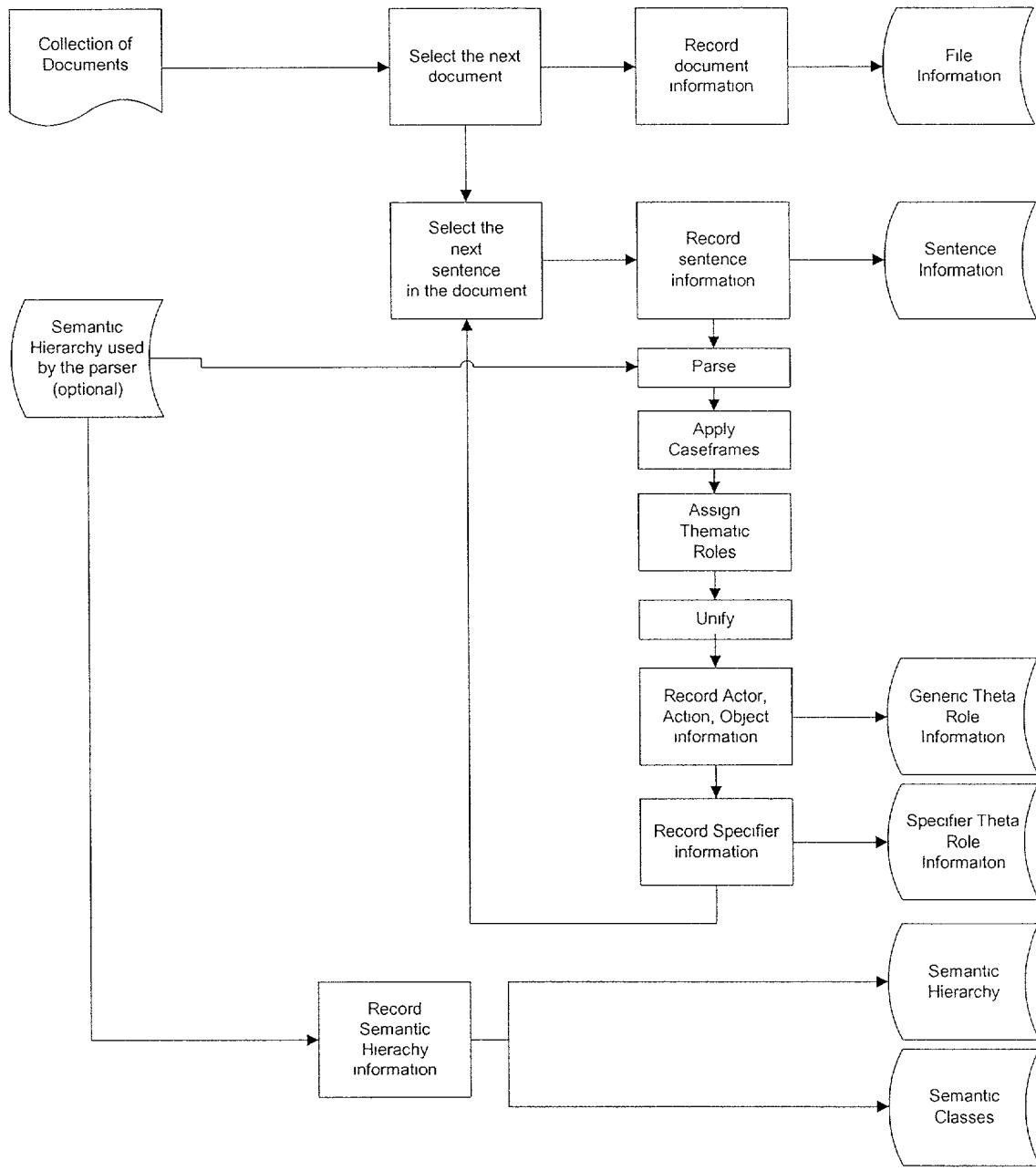


Figure 4
Index Creation Algorithm, Low Level

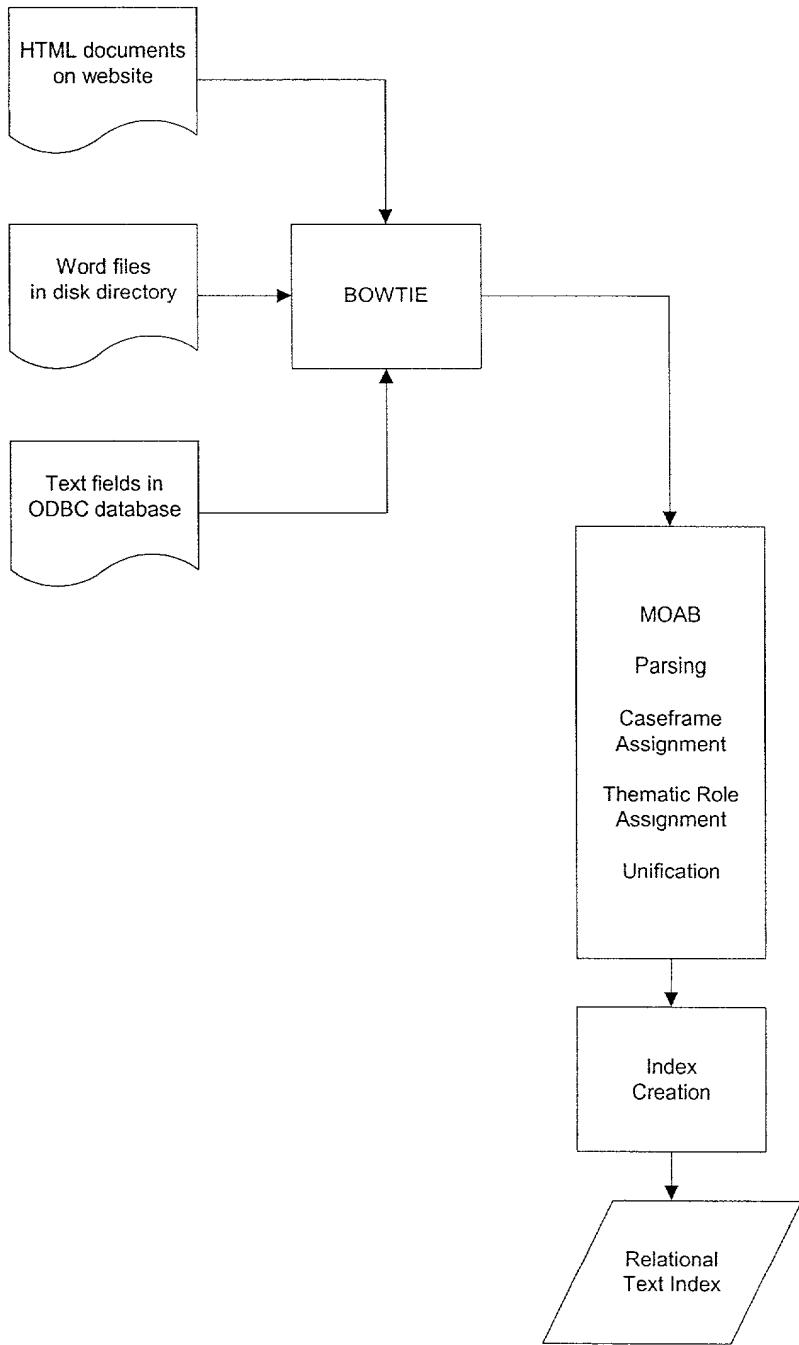


Figure 5
Overall Flow

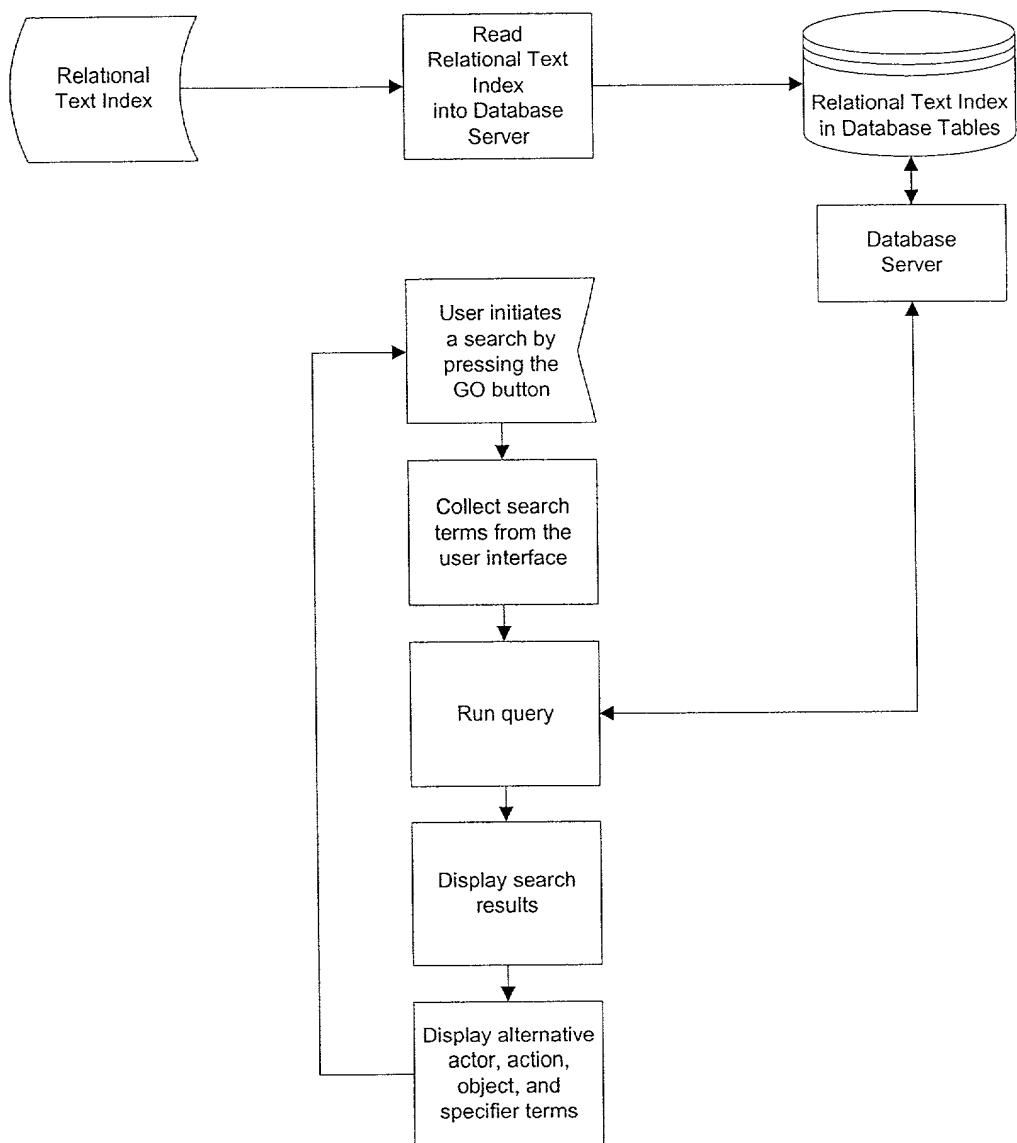


Figure 6
Flowchart – PowerDrill

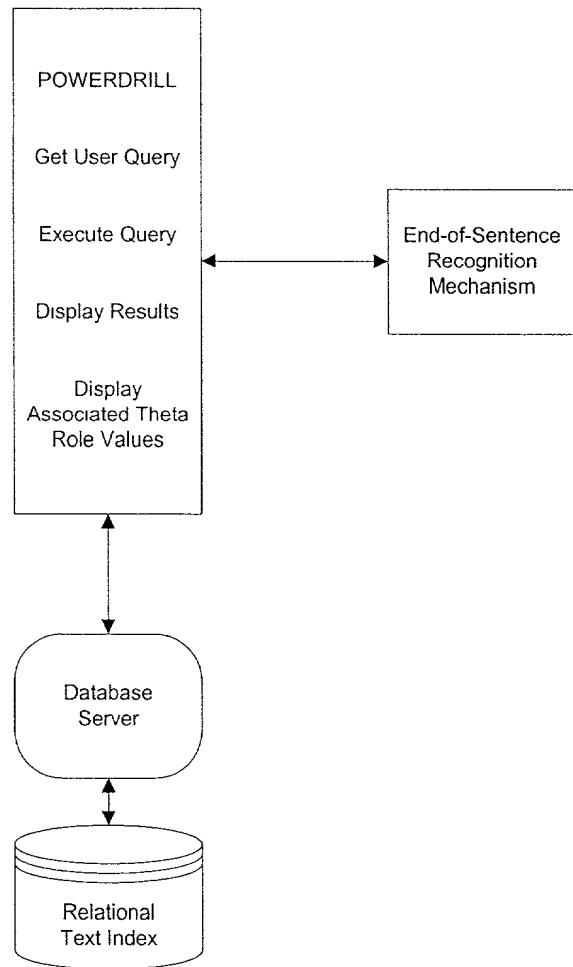


Figure 7
Overall Search Processing

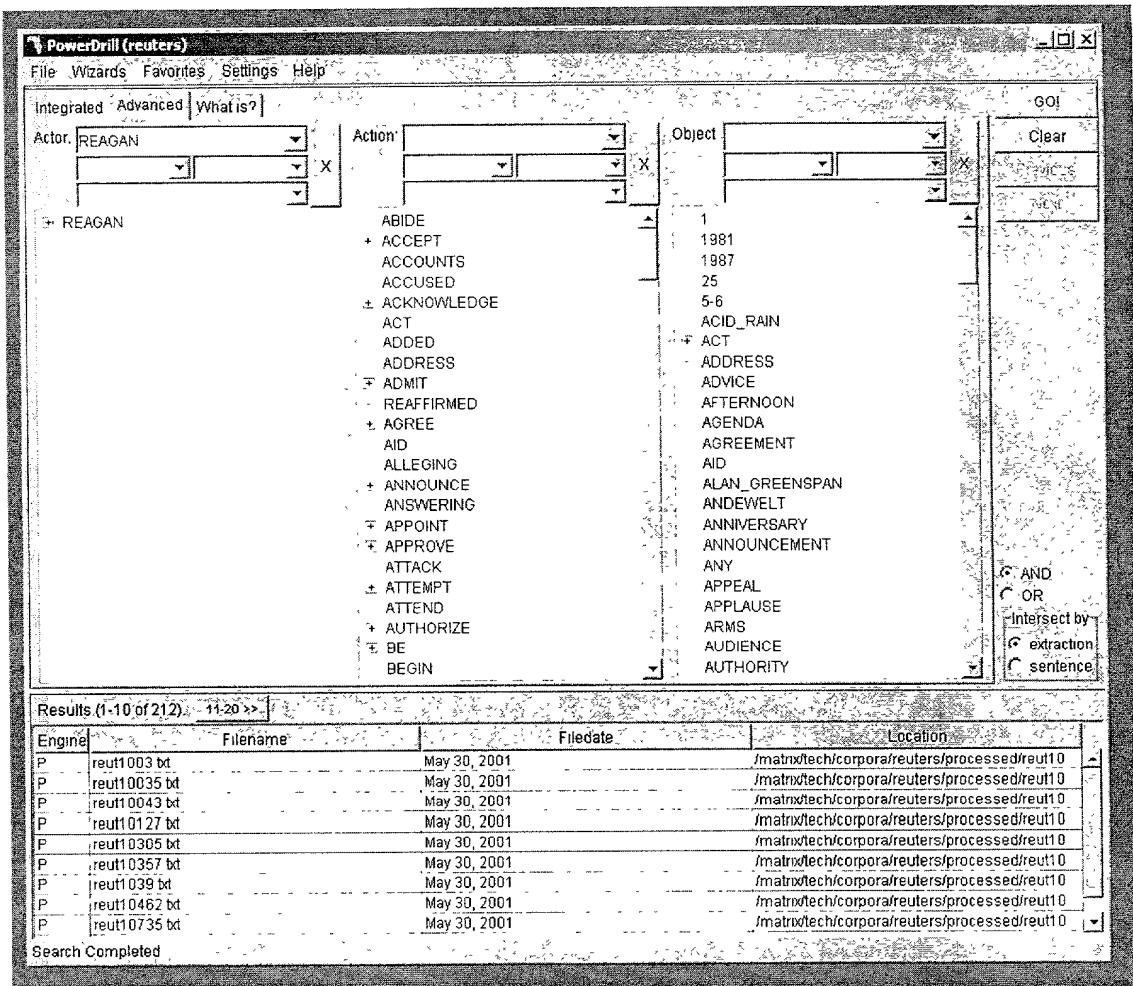


FIGURE 8

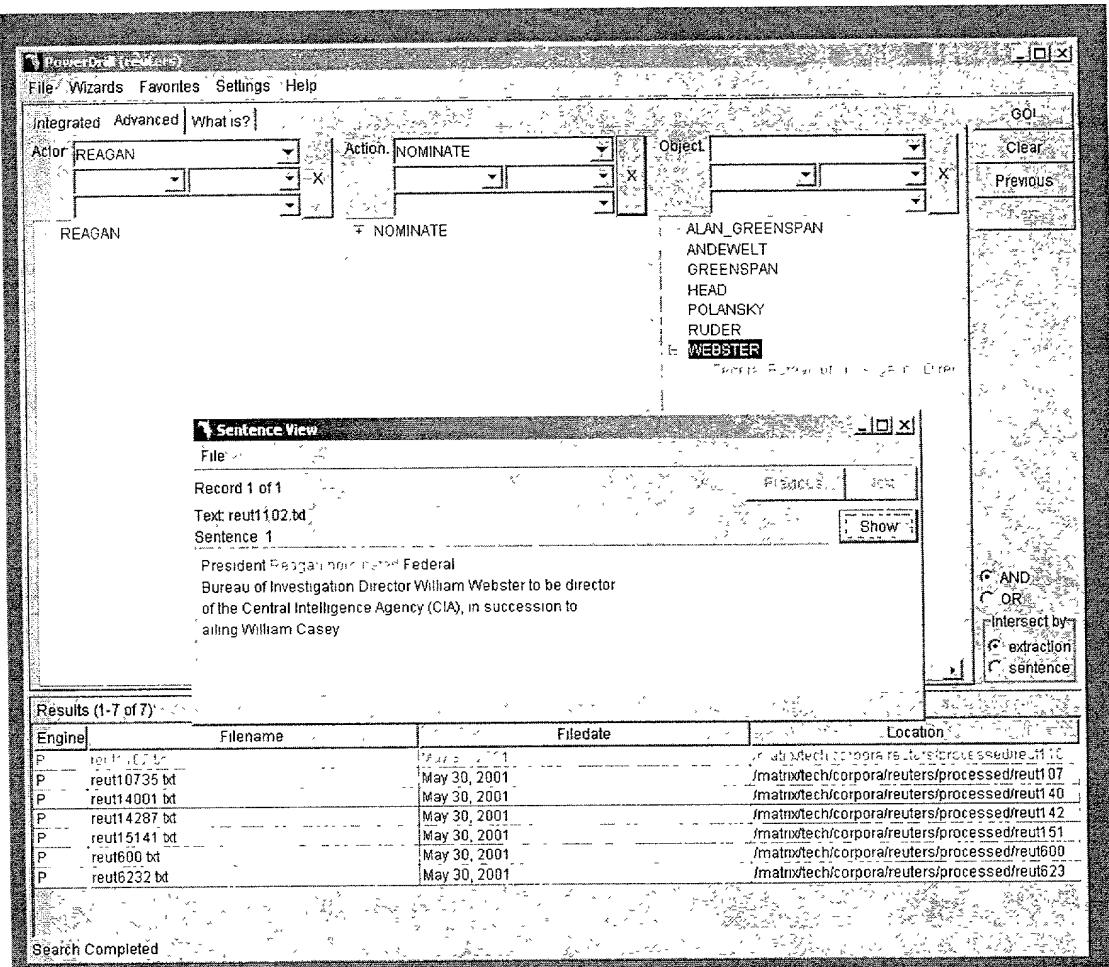


FIGURE 9

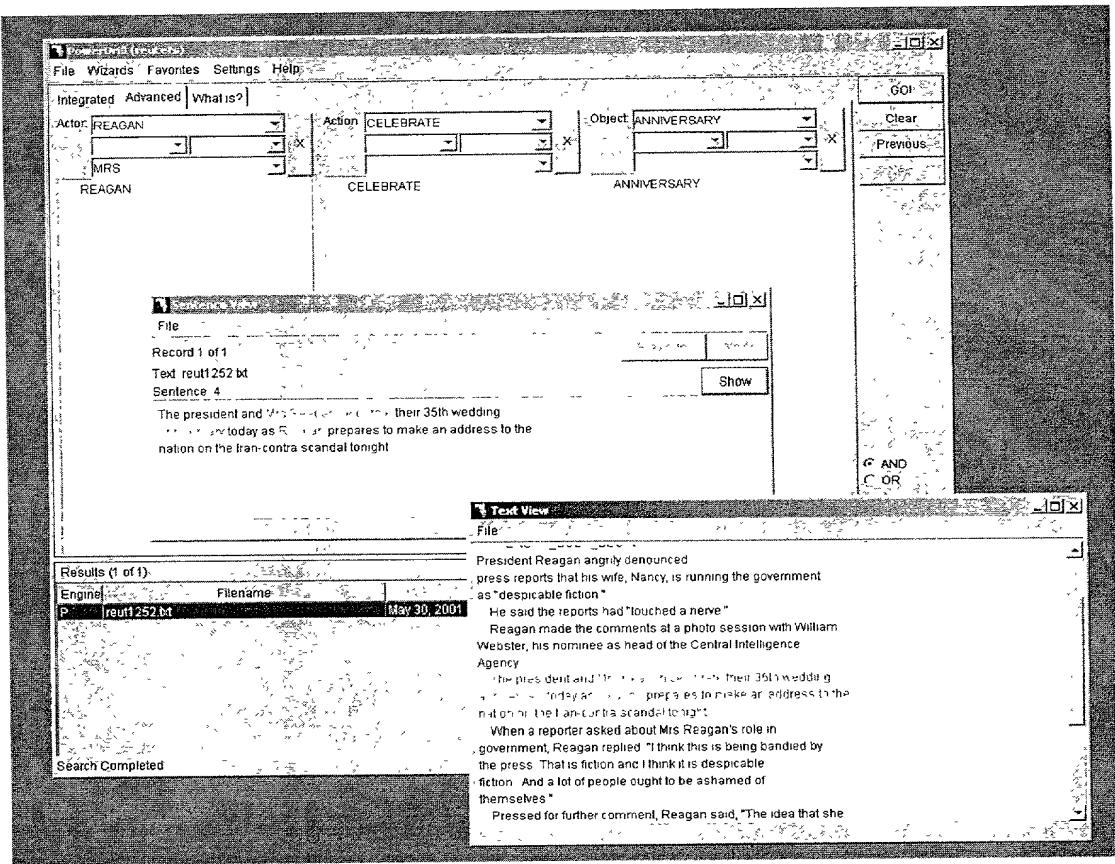


Figure 10

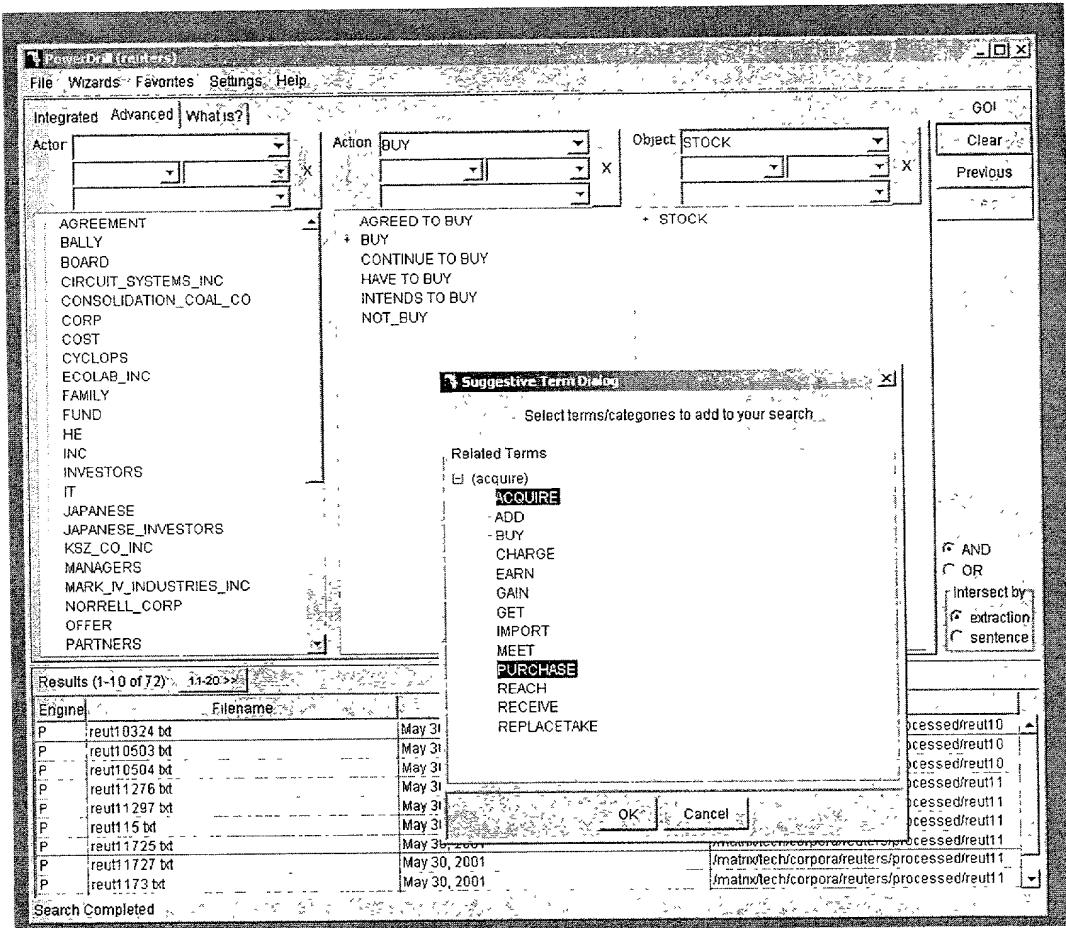


Figure 11

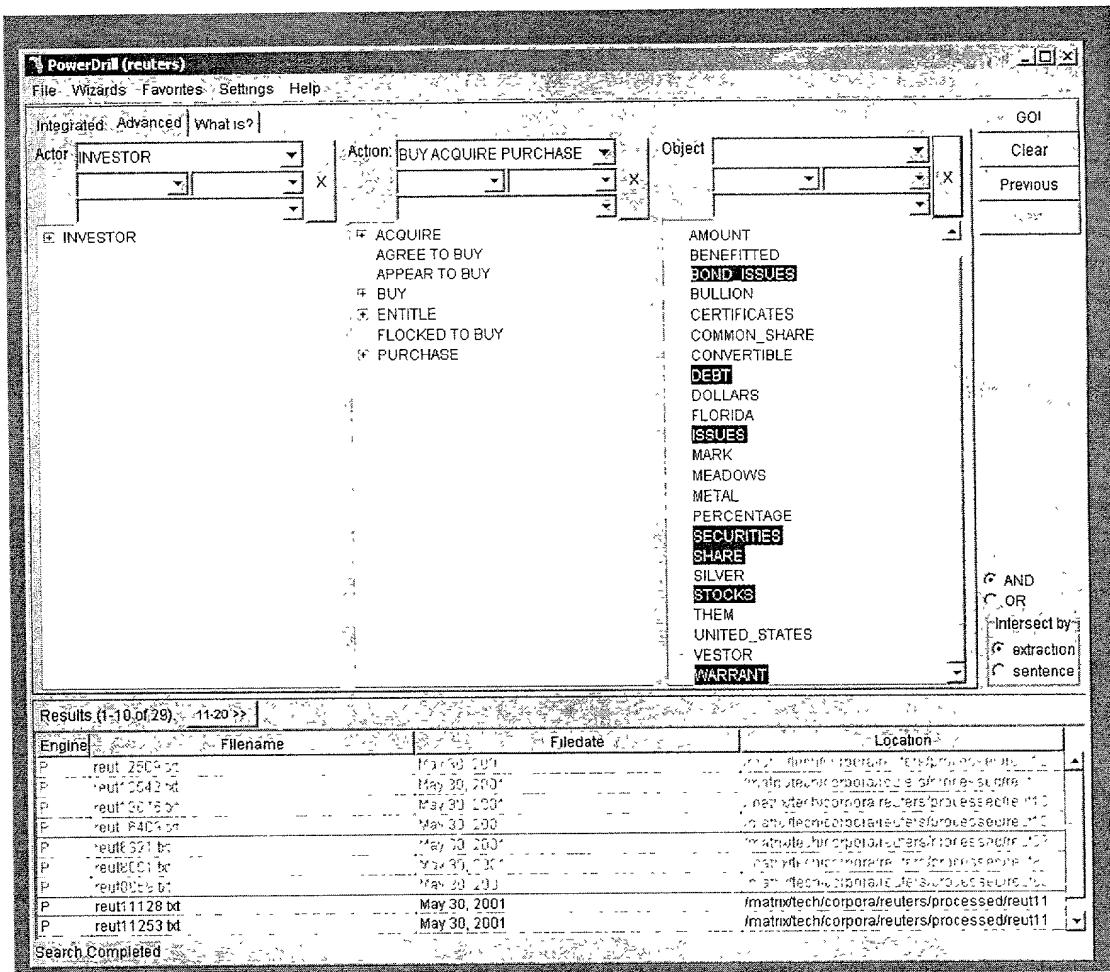


Figure 12

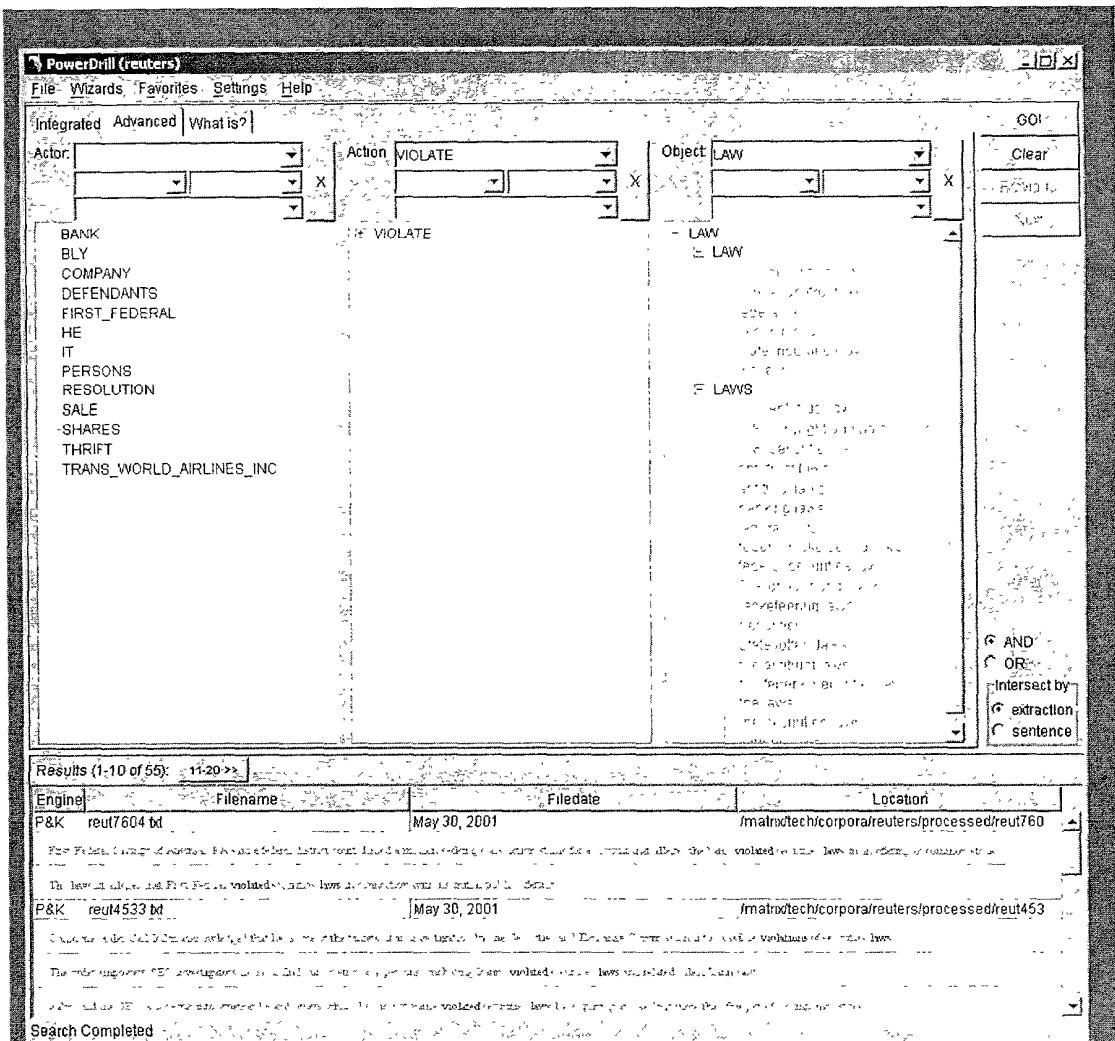


Figure 13